

BLAUPUNKT

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PM5543VTO

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MODEL

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SERVICE MANUAL

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**Properties of this TV set**

Programme sites:	49 for TV stations and 1 for AV reproduction
Connections:	1 jack for headphones (CINCH jack 3.5 mm ø) 1 jack EURO AV (21-pin)
Special features:	Auto Tuning System (ATS) Videotext, TOP text and FLOF text Sleep timer The TV set switches off automatically after a programmed time. Childproof TV lock You only can switch on the TV set.
Power supply:	220-240 V~, 50/60 Hz Adjustment range of the power unit between 190 V and 264 V
Receiver for:	Channels 01 to 99 Special channels S01 to S99
TV standards:	TV standard D/K, colour standard SECAM or PAL TV standard B/G or H, colour standard PAL or SECAM
Audio output stage:	4 watts (music) 2 watts (RMS power)
Dimensions:	500 (W) x 469 (H) x 468 (D) mm

**Safety notes**

- Protect the TV set against humidity. This avoids short-circuits and protects you against electrical shock hazard. Do not place any vessels filled with liquids, e.g. flower vases, on the set.
- Never open the TV housing. Disconnect the mains plug and contact your local dealer in case of repair.
- In case of thunderstorms the TV set may be damaged by direct lightning into the antenna equipment or the power lines. This can only be avoided by disconnecting both antenna plug and mains plug.

**What can be the cause?**

The remote control only operates at short range or "Battery" appears. Probably the battery is to be replaced.



**Protect the environment!**  
**Dead batteries do not belong in your domestic refuse!**

Please return them to your distributor or bring them to a collecting point for special substances.

**Care and maintenance**

Use only a wet cloth for cleaning the cabinet. Avoid acid cleaners.

Use a moist chamois leather for the screen.

## Setting up and connecting

### Setting up

When setting up your TV set, make sure that no bright light or sunshine falls on the screen, as this may result in pale colours and a loss of brilliance in the picture.

When it is dark, it is advisable to illuminate the area behind the TV set slightly to avoid heavy contrast differences which impair your eyes.

### No magnetic fields

The TV set should not be placed next to devices with strong magnetic fields, e.g. motors, loudspeakers. Such magnetic fields may cause colour spots on the TV screen.

Should such spots appear all the same, disconnect the mains plug and place the TV set and the magnetic source further apart from each other.

After about 15 minutes, when the TV set has cooled down switch the set on again and the colour spots will be eliminated.

### Air circulation

Please make sure that the air circulation for cooling the set will not be impeded.

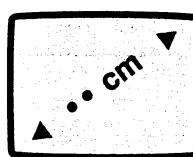
Do not place the set next to a radiator and ascertain that the air vents at the rear are not covered.

If heat accumulates in the unit, this may lead to damages.

### Viewing distance

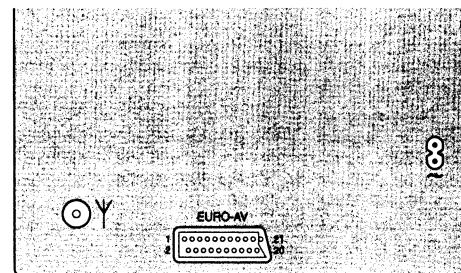
When deciding where to place the TV set, please keep in mind that the viewing distance is important for a good picture perception and eye comfort. The ideal viewing distance depends on the size of the screen measured between two opposing corners (diagonal).

The ideal viewing distance is calculated as follows: screen diagonal multiplied by five.



### Connecting the antenna

Connect the antenna system of your house to the antenna input on the rear of the TV set.



If you wish to connect a video recorder to this set, the antenna must be connected to the antenna input of the video recorder and the antenna output of the video recorder to the antenna input of the TV set.

### Mains connection

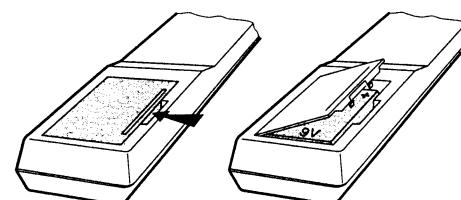
For mains connection, plug the enclosed power supply cable into a 220 V jack.

If you have connected a video recorder to the TV set as described in chapter antenna connection, then connect also the video recorder to a mains socket. The video recorder cannot be operated without mains voltage.

#### Important note:

The TV set may only be operated with the supplied mains cable or the original Blaupunkt spare part.

### Inserting the battery into the remote control



## First-time operation

### Introduction

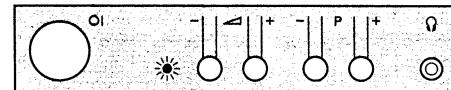
First of all we recommend:

- **to select the language** for the indications on the screen and then
- **memorize the TV programmes** which can be received in your area.

If this set has already been programmed by your dealer, skip the section "First-time operation" and continue with "General notes for operating".

### Switching the set on

Press power switch **O1** on the set.



An ON indicator is lighting and after several seconds the screen becomes bright.

Press button **i** and as soon as **i-MENÜ** → **E** is indicated in the picture, press immediately button **E**.

The table is indicated in the picture.



### Selecting a language

For the table and some other indications in the picture you may select one language among 8 languages.

The languages can be recognized by means of the country symbols.

D	⇒ German
GB	⇒ English
PL	⇒ Polish
CZ	⇒ Czech
SQ	⇒ Slovakian
H	⇒ Hungarian
GR	⇒ Greek (in latin letters)
CIS	⇒ Russian (in latin letters)

If you wish the indications in another language, please go on with this text.

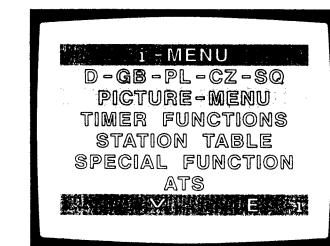
Otherwise skip the following text and start with "Storing of TV stations".

By pressing repeatedly button **V** move the yellow marking to the line with the respective country symbol.

Press button **E**. Now the country symbol for the activated language becomes red.

To switch over to another language use button **>**. With each actuation of the button the next country symbol becomes red and the language of the table changes appropriately.

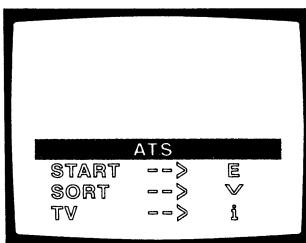
When the requested country symbol is activated, press button **E**. The country symbol is now yellow and the yellow marking is positioned in the line **PICTURE-MENU**.



### Storing of TV stations

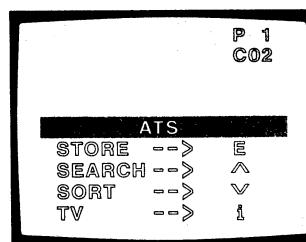
This TV set has a search feature, with the help of which you can **find**, **store** and then **sort** all of the available TV stations. By pressing button **V** move the yellow marking to the line **ATS**.

Press button **E**. The display field is indicated.



### Channel search start

Press button **E**. A new display field is indicated.



The automatic channel search starts and stops as soon as a channel has been found.

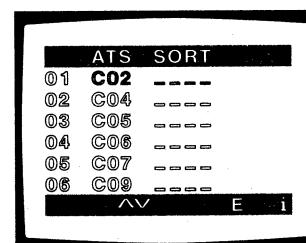
If you **want to store** the channel, press button **E** and

- the found channel will be stored on programme site 1
- programme site 2 automatically will be activated
- channel search will continue.

If you **do not want to store** the found channel, press button **^** and

- the channel won't be stored
- the next programme site won't be activated
- channel search will continue.

After having passed through the whole range, the display field is indicated.



If you wish to modify the order of the found channels, please continue with this text.

If not so, press button **i**.

### Sorting and entering the station names

The line of programme site 01 is red.

If you wish, for instance, to move the channel number of programme site 04 to programme site 01, press button **V** until the line of programme site 04 becomes red.

Press button **E** and the line becomes yellow.

Press button **^** until the channel number is in the line of programme site 01.

Press button **E**. The channel number is now red, only the four dashes behind the channel number are still yellow.

You **may** enter the station name here.

This station name is always briefly indicated in the picture, when this programme site is activated.

For this, the memory of your TV set contains many TV stations to be called up from the memory. Station names which are not included in the memory can be added.

Press button **^** or **V** repeatedly to have the station names indicated successively.

After having **found the name** press button **E**.

Now the whole line 01 is red again.

Now you can move the next channel number.

If the **name has not been found** and the four dashes are indicated again, press button **E**.

Only the first of the four dashes remains yellow.

Now you may enter the station name by yourself.

By pressing button **^** or **V** switch forwards or backwards through the character set.

When the correct character has been found, press button **>** so that the second position becomes red.

Select the next character.

For blank positions the character set provides a dash.

If the station name is complete, press button **E** and the whole line 01 is red again.

Now you can move the next channel number.

Finally press button **i**.

### Fine tuning

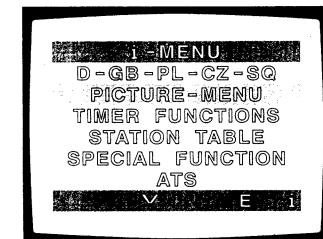
TV stations are exactly tuned in with the help of the automatic tuning control.

But due to unfavorable location of the TV set, the reception conditions of some programmes may be poor.

Possibly you may realize an improvement.

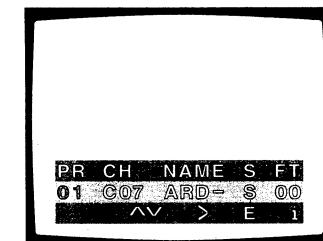
Press button **i** and as soon as **i - MENU** -> **E** is indicated in the picture, press immediately button **E**.

The table is indicated in the picture.



By pressing button **V** move the yellow marking to the line **STATION TABLE**.

Press button **E**. A display field, which is similar to the following illustration, is indicated.



Press button **>** until the numbers **00** below **FT** become green.

Press button **^** repeatedly.

The picture and the sound are modified.

If the reception quality is improved, press button **E** to store the modified adjustment.

If the quality does not improve, this time press button **V**.

If this improves the quality, press button **E** to store this adjustment.

If not so, adjust again to the mean value **00** and press button **E**. The display field for the next programme site is shown.

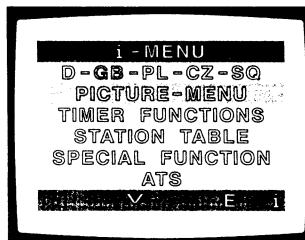
If you wish to modify the adjustment of another TV station as a trial, switch over to the respective programme site by pressing button **^** or **V** and proceed as described.

By pressing button **i**, you switch off the activated display field.

## Later storing of a new TV programme

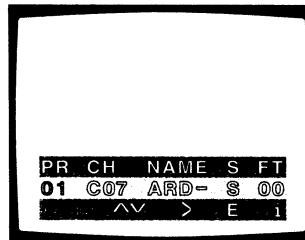
Press button **i** and as soon as **i - MENU** -> **E** is indicated in the picture, press immediately button **E**.

The table is indicated in the picture.



By pressing button **V** move the yellow marking to the line **STATION TABLE**.

Press button **E**. A display field, which is similar to the following illustration, is indicated.



Below **PR** the number of the programme site is shown.

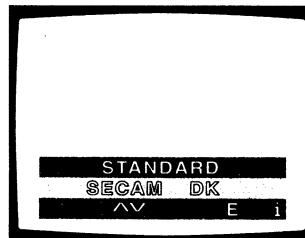
Use either the button **A** or **V** to select the programme site, on which you want to store the new TV station.

### Switching over to the standard of the station

Press button **>** until the **S** behind the station name becomes red.

Press button **A** or **V**.

The display field appears on the screen.



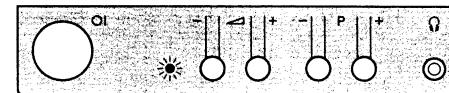
By pressing button **A** switch over to **SECAM DK**, if it is a station of the East European standard. Switch over to **PAL BG**, if it is a station of the West European standard. Press button **E**.

Now enter the channel number.

## General notes for operating

### Switching on

For switching the TV set on, press power switch **O1**.



An **ON** indicator is lighting.

The picture appears after some seconds and **P 1** is shown for a moment in the upper right part of the screen. **P 1** stands for programme site 1.

### Switching off

If you do not want to watch TV for a while, you may switch the set off using button **0** on the remote control. The set remains in stand-by mode and the **ON** indicator keeps lighting.

10 minutes after the closing-down of broadcasting, the TV set automatically switches to stand-by mode.

If you do not want to watch TV over a longer period of time, e.g. overnight, use power switch **O1** on the set to switch off.

### Switching on from stand-by mode

The TV set can be switched on again with the remote control using a numeric button or the button **A**.

- If you use a numeric button, the corresponding programme site is activated immediately.
- If you use button **A**, the programme site activated last is switched on.

### Selecting a different TV station

Use the numeric buttons on the remote control to select the number of the programme site that stores the TV station of your choice.

To select a one-digit programme site, press one of the numeric buttons 1 - 9.

For the two-digit programme sites 10 - 49 press first the numeric button for the decimal digit and while this one is still shown in the decimal field in the upper right part of the picture enter the unit number.

Thus, enter 1 and 0 for programme site 10; and enter 2 and 3 for programme site 23, etc.

By means of button **A** or **V** or you can switch forwards or backwards between the programme sites.

If you cannot activate a programme site when switching over, **C00** has been stored on this programme site instead of a channel number. Using the numeric buttons you may activate this programme site nevertheless. There is one exception. If programme site 10 is occupied with **C00**, all other two-digit programme sites are blocked.

To unlock them again, proceed as described under "Later storing of a new TV programme".

### Activating the display

When switching over to another programme site, the number of the new programme site is briefly indicated.

If you want the indication to be permanent, press button **i**.



### Entering the channel number of the TV programme

Two different ways can be used to enter channel numbers.

1. Using **direct input** of the channel number, if it is known.
2. Using **channel search**, if the channel number is unknown.

#### Direct channel input

Press button **>** until **C** or **S** below **CH** becomes red.

**C** means channels.

**S** means special channels as possible with cable TV.

Select **C** or **S** in accordance with the type of channel you wish to store. For this press button **A** or **V**.

Press button **>** and the channel number becomes red.

Enter the channel number by means of the numeric buttons. In case of a one-digit channel number press first the numeric button **0**, then the corresponding channel number.

Please continue with the chapter "Entering the station name".

#### Channel search

Press button **>** until the channel number below **CH** becomes red.

Press and hold button **A** or **V**.

Search tuning is activated and stops, when a channel is found.

If it is not the correct channel, briefly release the button and press it again. Channel search continues.

Repeat this process until the correct channel has been found.

Now continue with chapter "Entering the station name".

### Entering the station name

If you enter a station name below **NAME**, it is always briefly indicated in the picture, when you activate this programme site.

Press button **>**.

The first position under **NAME** will appear in red.

By pressing button **A** or **V** switch forwards or backwards through the character set.

When the correct character has been found, press button **>** so that the second position becomes red.

Select the next character.

For blank positions the character set provides a dash.

When the station name is complete, press button **E**.

The display field for the next programme site is shown.

By pressing button **i**, you switch off the activated display field.

## General notes for operating (continued)

### Adjusting the volume

Press and hold down button < or > until the required volume is adjusted.

A modified adjustment is stored automatically \*).

The storing of the volume is valid for all programme sites. If you wish to store a different volume on one individual programme site, continue reading on page 75 under "Special functions". You have to switch over to the respective programme site in advance.

### Sound stop

You can switch the sound off, to make a phone call for example, by pressing button **D**. A hint is indicated in the picture.

Press button **D** again, to switch the sound on again.

The sound is also switched on, if you select another programme site.

### Adjusting the brightness

using button **B** - or +.

A modified adjustment is stored automatically \*).

### Adjusting the colour intensity

using button **C** - or +.

A modified adjustment is stored automatically \*).

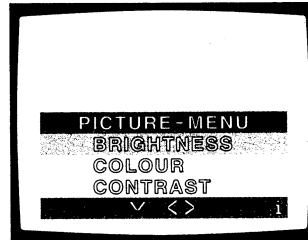
### Adjusting the contrast

This set was tested in the factory with max. contrast. If you watch TV at home, a reduced contrast is certainly more favorable. We recommend you to match the contrast to your environment at home.

Press button **i** and as soon as **i - MENU -> E** is indicated in the picture, press immediately button **E**.

The table is indicated in the picture, the yellow marking is in the line **PICTURE-MENU**.

Press button **E**. The display field is indicated.



By pressing button **V** move the yellow marking to the line **CONTRAST**.

Modify the contrast by pressing button < or >.

A modified adjustment is stored automatically \*).

By pressing button **i** the display field disappears.

## General notes for operating (continued)

### Time

The videotext decoder in this TV set offers the possibility to **show the time** on the screen. The condition for this is that the currently activated station emits videotext.

Press button **D** and the time is indicated in the upper right part of the picture.

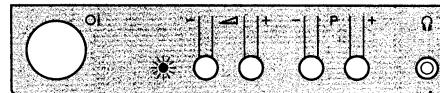
By pressing button **D** once again the indication disappears.

The indication automatically disappears, when switching over to another programme site.

### Control elements on the TV set

The TV set provides

- two buttons to adjust the volume, < / + and
- two buttons to switch over to other programme sites, P - / +.



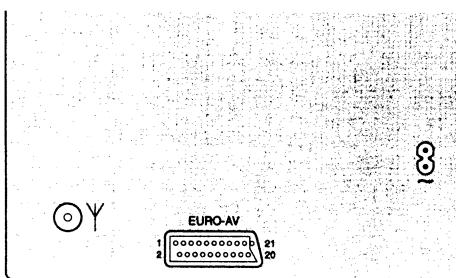
<sup>1)</sup> Exception:

If you have to set an extremely low level for a programme, then it is not advisable to store this automatically. This is why only the levels within a specific range are stored.

## What can be connected to the TV set?

### Video equipment or satellite receiver

Video sets, such as video recorders, camera recorders, CD video systems, or satellite receivers can be connected to the Euro AV jack of the TV set.



If the set to be connected has an Euro AV jack, connect it with an Euro AV cable to the **Euro AV Jack** of the TV set.

If the set to be connected features **an antenna jack only**, continue reading in the chapter "Reproduction via the antenna jack" on this page.

Please contact your local dealer to be informed how to connect units with different jacks.

Select the programme site **AV** to activate the reproduction via the Euro AV jack on the TV set. Press button **0/AV**.

#### Note:

Adjustments as the volume, the brightness etc. are modified during operation via the Euro AV jack, as you know it for the TV operation.

When operating the set via Euro AV jack, you may store different adjustments than for the TV mode.

To switch over between the modes adjust the stored values appropriately.

A modified adjustment is stored automatically.

### Reproduction via the antenna jack

This operating mode can only be recommended, if your TV set has no video and audio output jacks.

To operate the video set via the antenna jack, the TV set must be adjusted to the channel used by the video set.

Most video sets are transmitting on **channel 36**.

This is mentioned within the operating instructions of the video set.

A **free programme site** of the TV set must be adjusted to the channel of the video set.

For this, activate the test signal of your video set or insert a cassette and start the reproduction.

Use the numeric buttons to select a free programme site. Press button **C/S**.

In the picture shows **C** or **S** and a number.

If **S** is indicated, switch over to **C**.

For this, press button **C/S**.

Enter the channel number **36** with the numeric buttons and press immediately button **E** **twice** to store the adjustment.

For video reproduction always activate this programme site.

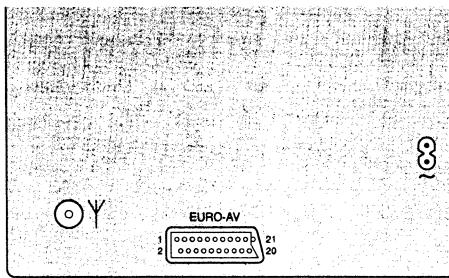
## What can be connected to the TV set? (continued)

### Decoder (for Premiere, Teleclub ...)

Stations which partially transmit coded programmes may be fed into cable TV systems.

To decode these programmes, you are in need of a decoder. It is possible to rent this decoder at your local dealer.

Such a unit has to be connected to the Euro AV jack of your TV set.



The decoder functions automatically.

As soon as a coded programme is received, the decoder and the TV set are switched over.

For this, the TV set has to be »prepared« once.

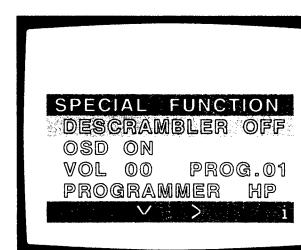
Activate the programme site on which the station emitting coded programmes has been stored.

Press button **i** and as soon as **i - MENU -> E** is indicated in the picture, press immediately button **E**.

A table is indicated.

By pressing button **V** move the yellow marking to the line **SPECIAL FUNCTION**.

Press button **E**. The display field is indicated.



The yellow marking is in the line **DESCRAMBLER**.

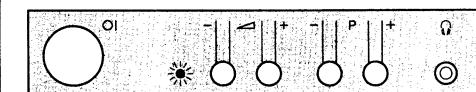
Press either button **>** to switch the DESCRAMBLER from **OFF** to **ON**.

Afterwards press button **i** and the display field disappears.

If there are more than one station emitting coded programmes, proceed with the respective programme sites as described.

### Headphones

Headphones can be connected to jack **Ø** (impedance 4...600 Ohms).



The headphones must be provided with a CINCH connector of 3.5 mm Ø.

The loudspeaker of the TV set is switched off as soon as you insert the CINCH connector into the jack.

The headphone volume can be adjusted by pressing button **< or >**.

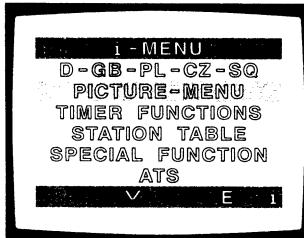
## Sleep Timer and Childproof TV lock

**Sleep Timer** can be used to program the time at which the set shall switch off automatically.

The **childproof TV lock** ensures that your child can watch TV only when you deem it right.

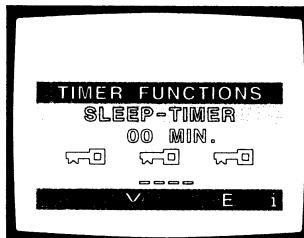
Press button **i** and as soon as **i-MENU -> E** is indicated in the picture, press immediately button **E**.

The table is indicated in the picture.



By pressing button **V** move the yellow marking to the line **TIMER FUNCTIONS**.

Press button **E**. The display field is indicated.



The yellow marking is in the line **SLEEP-TIMER**.

### Activating the Sleep Timer

Press button **E**. **00** becomes red.

Press the button **V** to switch downwards in 10-minute steps starting at 90 minutes.

After having entered the time press successively button **E** and button **i**.

The TV set is activated as long as determined and afterwards it switches off automatically.

### Activating the childproof TV lock

By pressing button **V** move the yellow marking to the line **---**.

Press button **E**. The first of the four digits will appear red.

Use the numeric buttons to enter a four-digit code number and press successively button **E** and button **i**.

The code number is stored and the childproof TV lock is activated.

If now the TV set is switched off and on again, the childproof TV lock must be unlocked.

### Unlocking the childproof TV lock

If you switch on the TV set, the display field appears only. Enter your code number with the numeric buttons and the TV picture of the activated programme site will be shown.

### Deactivating the childproof TV lock

If the childproof TV lock is no longer required, you can erase the code number.

Press button **i** and as soon as **i-MENU -> E** is indicated in the picture, press immediately button **E**. The table is indicated in the picture.

By pressing button **V** move the yellow marking to the line **TIMER FUNCTIONS**.

Press button **E**. The display field is indicated.

By pressing button **V** move the yellow marking to the line **---**.

Press button **E**. The first of the four digits will appear red.

Enter once again your code number with the numeric buttons. Now the childproof TV lock is deactivated.

Press button **i** and the display field disappears.

### Code number lost - what has to be done?

Press successively the following buttons:

**>**, **<**, **V**, **A**.

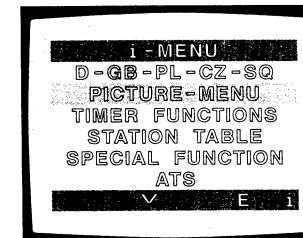
Now the code number is erased.

## Special functions

### Selecting special functions

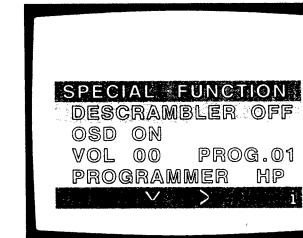
Press button **i** and as soon as **i-MENU -> E** is indicated in the picture, press immediately button **E**.

The table is indicated in the picture.



By pressing button **V** move the yellow marking to the line **SPECIAL FUNCTION**.

Press button **E** and the display field will be indicated.



The yellow marking is in the line **DESCRAMBLER**.

### DESCRAMBLER ON or OFF

When you receive a coded programme and have hooked up a decoder to your Euro AV jack, then you must activate the decoder function.

**DESCRAMBLER OFF** must then be switched to **ON**. Press button **>**.

By pressing button **i**, you switch off the activated display field.

### OSD ON or OFF

You may switch off the indication which is shown in the picture when modifying the volume, the brightness, the contrast or the colour intensity.

By pressing button **V** move the yellow marking to the line **OSD**.

**OSD ON** must then be switched to **OFF**. Press button **>**.

By pressing button **i**, you switch off the activated display field.

### VOL 00 PROG. 01

The programme site can be set with a different volume if desired.

By pressing button **V** move the yellow marking to the line **VOL 00 PROG. 01**.

Alter the volume by pressing either button **<** or **>**. 12 settings in either direction are possible.

By pressing button **i**, you switch off the activated display field.

### PROGRAMMER HP

This special function is only for the specialized dealer. With this operating mode the TV set can be programmed using the programmer HTP 89.

By pressing button **V** move the yellow marking to the line **PROGRAMMER HP**.

Press button **>**. **HP** becomes red.

Now the programmer can be started.

## Hotel service

### Activating the hotel service

If a TV set is installed in a hotel room, the volume of the set should be limited and it should not be possible to modify the storing of the TV stations.

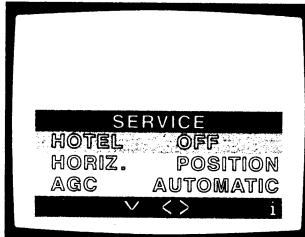
This TV set can be programmed for use in a hotel room.

Using button < or > adjust the desired maximum volume.

Switch off the TV set with the power switch **01** on the set.

Hold button **i** depressed of the remote control and switch the TV set on once again.

The following display field is shown in the picture.



The yellow mark is in the line **HOTEL**.

Press either button < or > to switch to **ON** and then press button **i**.

The adjustment has been stored and the display field disappears.

Now the volume can only be modified up to the stored maximum value and the stored TV stations cannot be modified.

### Deactivating the hotel service

Switch on the display field as described.

Press either button < or > to switch to **OFF** and then press button **i**.

## Videotext

### What is videotext?

Videotext is called the additional information being simultaneously emitted with the TV programmes by the TV stations.

By means of this videotext decoder in your TV set the additional information can be shown on the screen.

Videotext can be texts, graphical representations or subtitles for TV programmes. The latter should be a help for persons with difficulties of hearing.

Videotext will be transmitted with whole pages.

The pages are provided with numbers.

They are selected by means of the remote control.

### Important note

If the antenna signal is not perfect, videotext pages may be reproduced defectively, although the TV set works absolutely perfectly.

There is a particular danger for that, if the TV picture is grainy or double images occur.

Please let your antenna system be checked.

### Switching over to videotext operation

Press button **TV/**.

When first switching over from TV operation to videotext operation, the overview on page 100 will be indicated, otherwise you will see the page last viewed.

Page 100 is also activated by pressing button **i**.

### Selecting the character set

Almost each language has specific characters which do not exist in other languages. Therefore, you have to select the right character set for your language so that the TV set is able to display such special characters in the right way. This setting has to be carried out only once.

Press and hold down the button **i** until the following is shown in the lower part of the screen:

**WEST+CZ, SQ / EAST / WEST+TR.**

**WEST + CZ + SQ** = Western Europe + Czech Republic +  
Slovak Republic

**EAST** = Eastern Europe

**WEST + TR** = Western Europe + Turkey

Move the blue field onto the right character set by pressing the button < or >.

Press the button **E** to store your setting.

### Selecting the pages

This videotext decoder may receive all videotext pages up to page number 899.

By means of the numeric buttons enter the page number. On the upper left part of the screen the selected page number is indicated.

As soon as the page has been found, it is indicated on the screen.

The next page number is activated directly by pressing the **green** button.

You switch back to the preceding page by pressing the **red** button.

### Selecting the pages without entering the page numbers

You test best this function by means of the overview on page 100.

Press button **A** or **V**.

A rectangular indicator is flashing on the first and on the last page number of the overview.

Move the indicator by means of the button **A** or **V** to the requested page number and press button **E**.

The selected page is indicated.

If this page also contains page numbers, proceed as described to select another page etc.

**PAGE-CATCHING** is indicated in the upper part of the picture.

### Videotext pages with subpages

If a message cannot be displayed on one page only, the remaining text is shown on subpages.

You can recognize the subpages with the symbols  $\gg$  or  $\ll$ , which are indicated in the lower right corner of the screen, and with the numbers, e.g. 01/10, which are indicated in the upper right corner. 01/10, for example, means that you are looking at the first of 10 subpages.

These subpages appear automatically one after the other. You have no influence on the switching speed of the pages.

If you want to select one certain page, press button **AUX**. At the lower edge of the screen a line with different symbols occur.

By pressing button  $<$  or  $>$  move the blue field to /00 and press button **E**.

The symbol  $----$  will appear in the upper left corner of the screen.

With the numeric buttons enter the number of the subpage, e.g. 0009.

The selected subpage is displayed as soon as the station is transmitting. This page remains activated until you select another page number or until you enter another subpage.

You enter a new subpage of the selected videotext page using the numeric buttons.

To select again a new videotext page, press button **E** once.

### TV operation during videotext operation

During videotext operation you may switch over to the TV picture.

This is advantageous if you have selected a page that is permanently being updated, e.g. sports news.

Press button **AUX**.

At the lower edge of the screen a line with different symbols occur.

By pressing button  $<$  or  $>$  move the blue field to  $\square x$  and press button **E**.

You can watch TV. As long as the symbol  $\square$  is displayed in the upper left corner of the picture no message has been modified.

If a new message is received the respective page number will appear in the upper left corner of the picture.

Press button **E** and the updated page is displayed.

The possibility of watching TV during videotext operation is also of use for filling the waiting time after having selected a page.

As soon as the page is "found", the page number is displayed in the upper left corner in the picture.

### Revealing answers

**Quiz answers** or **VPS times** in programme tables are not displayed, when you select a corresponding page.

Press button **AUX**.

At the lower edge of the screen a line with different symbols occur.

By pressing button  $<$  or  $>$  move the blue field to  $\square ?$  and press button **E** to reveal the text.

The answers or the VPS times disappear again, if you press button **E** once again.

### Doubled letter size

You may double the size of the letters.

Press button **AUX**.

At the lower edge of the screen a line with different symbols occur.

By pressing button  $<$  or  $>$  move the blue field to  $\square \uparrow$  and press button **E**.

First the **upper** half of the page is indicated and, when pressing this button once again, the **lower** half is shown.

Letters are reduced to their **normal** size when you press button **E** once again.

### STOP function

The contents of a displayed page will no longer be updated, subpages are no longer selected.

Press button **AUX**.

At the lower edge of the screen a line with different symbols occur.

By pressing button  $<$  or  $>$  move the blue field to **STOP** and press button **E**.

**STOP** is indicated in the upper left corner of the screen.

By pressing button **E** once again, **STOP** function is released again.

### Switching back to TV operation

Press button **TV/**.

### TOP text

TOP text allows you to select videotext pages without paying attention to page numbers.

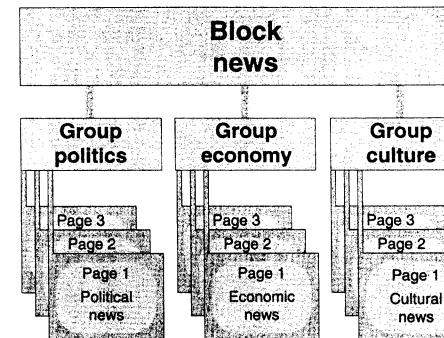
#### The principle is:

The videotext editors sort the pages according to contents and combine topics in blocks.

e.g. block news  
block sports  
block TV programmes etc.

The blocks are divided into groups.

e.g. block news in group politics  
group economy  
group culture etc.



The groups then contain the actual videotext pages.

For TOP text operation the TV station has to transmit the pages in respective order.

With the coloured buttons pages are selected.

In the yellow field the name of the next group in this block is displayed.

The blue field shows the name of the next block.

Use the **blue** button for switching forward from block to block. With the **yellow** button you may switch from group to group.

If the yellow and the blue field indicate the same names, there isn't any further group. The next block is following.

Using the **green** button you switch forwards from page to page (videotext, group and block page).

Using the **red** button you shift backwards from one single videotext page to the group page and afterwards from block to block.

### Switching back to TV operation

Press button **TV/**.

### FLOF text (Spain)

FLOF text offers the possibility of selecting teletext pages using coloured buttons without paying attention to page numbers.

#### The principle is:

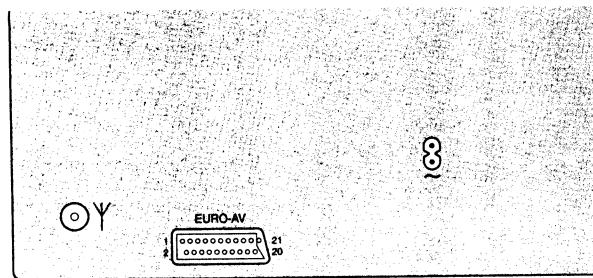
The teletext editors emit additional pages containing notes. These remarks appear in coloured fields (red, green, yellow, blue) at the bottom of the screen.

The page is selected with the respectively coloured button.

### Switching back to TV operation

Press button **TV/**.

## Connections on the rear panel



### Antenna connection

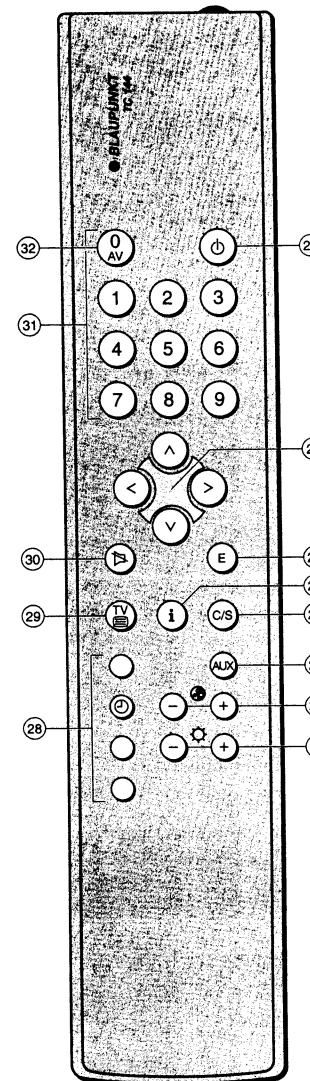
**Euro AV jack**  
Inputs and outputs for video and audio signals.  
Inputs for RGB signals.

Wiring of the jack:

- 1 = Output audio signal
- 2 = Input audio signal
- 3 = Output audio signal
- 4 = Ground connection
- 5 = Ground connection blue
- 6 = Input audio signal
- 7 = Input blue
- 8 = Input for turn-on voltage  
(12 V at reproduction, otherwise 0 V)
- 9 = Ground connection green
- 10 = Free
- 11 = Input green
- 12 = Free
- 13 = Ground connection red
- 14 = Free
- 15 = Input red
- 16 = Input blanking
- 17 = Ground connection video
- 18 = Ground connection blanking
- 19 = Output video signal
- 20 = Input video signal,  
also input synchronous signal at RGB operation
- 21 = Plug ground connection

### Mains connection

## Control elements of the remote control



**20** **Button**   
Switching off, TV set remains in stand-by mode.

**21** **Buttons </>**  
Volume,  
To move the indicator in horizontal direction

**Buttons ^/V**  
To switch over to other programme sites,  
To move the indicator in vertical direction

**Button A**  
To switch on from stand-by mode

**22** **Button E**  
To memorize,  
To switch on display fields and tables

**23** **Button i**  
Preselector

**24** **Button C/S**  
Activates the channel input

**25** **Button AUX**  
Preselector

**26** **Buttons -/+**  
Colour intensity

**27** **Buttons -/+**  
Brightness

**28** **Red button**  
Selects the preceding videotext page number

**Green button /**  
Selects the following videotext page number,  
Time

**Yellow button**  
Switches to the next group

**Blue button**  
Switches to the next block

**29** **Button TV/**  
Switches from TV operation to videotext operation and  
vice versa.

**30** **Button**   
Sound stop

**31** **Numeric buttons 0 ... 9**  
To select other programme sites,  
To switch on from stand-by mode,  
To select page numbers during videotext operation

**32** **Button 0/AV**  
For switching on the programme site AV